

Amendments to the Claims:

Claims 1-15, 17-25, 49-61, and 63-71 were pending at the time of the Office Action.

Claims 14-15, 17-25, and 61 are currently amended and hereby withdrawn.

Claims 60 and 63-71 are hereby withdrawn.

Claims 1-13, 50, 52-54, 56-57, and 59 are amended.

Claims 1-13 and 49-59 remain pending.

1. (Currently amended) A meta-layer set of computer instructions residing on computer-readable storage media for integrating the communications within a manufacturing facility comprising:

a graphic user interface generator for generating browser compatible graphic displays based upon data;

a structured data exchange for communicating data to the graphic user interface generator for display, the structured data exchange including;

a look-up table to enable translating legacy data[;], and

a two-way communication layer allowing real-time interaction between the graphic user interface generator and software wrappers; and,

the software wrappers for enabling communication of legacy data between the structured data exchange and one or more software servers whereby a user interaction received at the graphic user interface generator modifies legacy data at the one or more software servers.

2. (Currently amended) The computer instructions residing on computer-readable storage media according to claim 1, ~~where~~ wherein the graphic user interface generator is ~~an~~ a hyper text markup language (HTML) page generator.

3. (Currently amended) The computer instructions residing on computer-readable storage media according to claim 1, wherein the user interaction received at the graphic user interface generator modifies the ~~modifying~~ legacy data includes by ~~retrieving~~ a numerical control program for use on at least one machine tool controller.

4. (Currently amended) The computer instructions residing on computer-readable storage media according to claim 1, ~~where~~ wherein the structured data exchange comprises a network infrastructure.

5. (Currently amended) The computer instructions residing on computer-readable storage media according to claim 4, ~~where~~ wherein the network infrastructure comprises one or more software servers.

6. (Currently amended) The computer instructions residing on computer-readable storage media according to claim 4, wherein the user interaction received at the graphic user interface generator modifies the modification of legacy data include-by retrieving legacy data to generate the browser compatible graphic displays.

7. (Currently amended) The computer instructions residing on computer-readable storage media according to claim 6, wherein the retrieving legacy data includes retrieving computer-assisted drafting (CAD) files to generate the browser compatible graphic displays.

8. (Currently amended) The computer instructions residing on computer-readable storage media according to claim 7, wherein the user interaction received at the graphic user interface generator modifies the modification of legacy data includes-by a the-modification of (CAD) CAD files by generating commands to at least one software server.

9. (Currently amended) The computer instructions residing on computer-readable storage media according to claim 6, wherein the retrieving legacy data includes retrieving numerically control files to generate the browser compatible graphic displays.

10. (Currently amended) The computer instructions residing on computer-readable storage media according to claim 9, wherein the user interaction received at the graphic user interface generator modifies the modification-of-legacy data includes-by a the-modification of numerically control files by generating commands to at least one software server.

11. (Currently amended) The computer instructions residing on computer-readable storage media according to claim 6, wherein the retrieving legacy data includes retrieving parts inventory files to generate the browser compatible graphic displays.

12. (Currently amended) The computer instructions residing on computer-readable storage media according to claim 11, wherein the retrieving parts inventory files includes ordering parts according to the graphic display of parts inventory files.

13. (Currently amended) The computer instructions residing on computer-readable storage media according to claim 5, ~~where~~ wherein at least one of the software servers is an Manufacturing Enterprise System.

14. (Currently amended and Withdrawn) The computer instructions residing on computer-readable storage media according to claim 5, where at least one of the software servers is a workstation management system.

15. (Currently amended and Withdrawn) The computer instructions residing on computer-readable storage media according to claim 6, where at least one of the software servers is an Internet gateway.

16. (Cancelled.)

17. (Currently amended and Withdrawn) The computer instructions residing on computer-readable storage media according to claim 6, where at least one of the software servers is Scheduling Software.

18. (Currently amended and Withdrawn) The computer instructions residing on computer-readable storage media according to claim 6, where at least one of the software servers is an e-mail server.

19. (Currently amended and Withdrawn) The computer instructions residing on computer-readable storage media according to claim 6, where at least one of the software servers is a parts catalogue.

20. (Currently amended and Withdrawn) The computer instructions residing on computer-readable storage media according to claim 6, where at least one of the software servers is an assembly procedure library.

21. (Currently amended and Withdrawn) The computer instructions residing on computer-readable storage media according to claim 6, where at least one of the software servers is a warehouse management program.

22. (Currently amended and Withdrawn) The computer instructions residing on computer-readable storage media according to claim 6, where at least one of the software servers is a human resources management program.

23. (Currently amended and Withdrawn) The computer instructions residing on computer-readable storage media according to claim 6, where at least one of the software servers is a benefits management software program.

24. (Currently amended and Withdrawn) The computer instructions residing on computer-readable storage media according to claim 6, where at least one of the software servers is an internet router.

25. (Currently amended and Withdrawn) The computer instructions residing on computer-readable storage media according to claim 6, where at least one of the software servers is an intranet server.

26. (Withdrawn) A method of serving information from at least one server comprising:

- a. logging on to a high-level meta-layer computer product;
- b. requesting information from the computer product;
- c. examining the requested information to determine the server containing the requested information;
- d. transmitting the information request to the appropriate server;
- e. receiving the requested information from the appropriate server; and,
- f. displaying the requested information.

27. (Withdrawn) The method of claim 26 wherein the logging on comprises receiving security privileges on the at least one server according to a log-on identity.

28. (Withdrawn) The method of claim 27 wherein the security privileges accorded to the log-on identity are defined by a system administrator.

29. (Withdrawn) The method of claim 26 wherein requesting information occurs through interaction with a browser.

30. (Withdrawn) The method of claim 26 wherein requesting information occurs through interaction with a graphic user interface.

31. (Withdrawn) The method of claim 26 wherein examining comprises a log-in to an appropriate remote server.
32. (Withdrawn) The method of claim 26 wherein examining comprises presenting options to the user and presenting information according to a chosen option from the user.
33. (Withdrawn) The method of claim 26 wherein transmitting means sending a request by means of a computer network.
34. (Withdrawn) The method of claim 33 wherein the network is a LAN.
35. (Withdrawn) The method of claim 33 wherein the network is a WAN.
36. (Withdrawn) The method of claim 33 wherein the network is the Internet.
37. (Withdrawn) The method of claim 33 wherein the network is a wireless network.
38. (Withdrawn) The method of claim 33 wherein the network is a satellite link.
39. (Withdrawn) The method of claim 33 wherein the network links to at least one remote server.
40. (Withdrawn) The method of claim 26 wherein receiving means receiving a request by means of a computer network.
41. (Withdrawn) The method of claim 39 wherein the network is a LAN.
42. (Withdrawn) The method of claim 40 wherein the network is a WAN.

- 43. (Withdrawn) The method of claim 40 wherein the network is the Internet.
- 44. (Withdrawn) The method of claim 40 wherein the network is a wireless network.
- 45. (Withdrawn) The method of claim 40 wherein the network is a satellite link.
- 46. (Withdrawn) The method of claim 40 wherein the network links to at least one remote server.
- 47. (Withdrawn) The method of claim 26 wherein displaying is by means of a browser.
- 48. (Withdrawn) The method of claim 26 wherein displaying is by means of a graphic user interface.

49. (Previously presented) A system for sharing information incident to manufacturing comprising:

- a computer network, itself comprising at least one server;

- at least one computer remote to the server and connected to the server to allow communication with the server;

- a plurality of software servers containing legacy data incident to manufacturing and communicatively connected to the network; and

- a software product, itself comprising:

  - a structured data exchange for communicating data to a graphic user interface generator for display, the structured data exchange including;

    - a look-up table to enable translating legacy data; and

    - a two-way communication layer allowing real-time interaction between the graphic user interface generator and software wrappers;

  - the software wrappers for communication between each of the software servers and a structured data exchange; and

  - the graphic user interface generator for displaying data from the structured data exchange whereby a user interaction received at the graphic user interface generator modifies legacy data at the one or more software servers.

50. (Currently amended) A system according to claim 49, ~~where~~ wherein the graphic user interface generator is ~~an~~ a hyper text markup language (HTML) page generator.

51. (Previously presented) A system according to claim 49, wherein modifying legacy data includes retrieving a numerical control program for use on at least one machine tool controller.

52. (Currently amended) A system according to claim 49, wherein ~~modification of the modifying~~ legacy data ~~include~~ includes retrieving legacy data to generate the browser compatible graphic displays.



53. (Currently amended) A system according to ~~claim 49~~ claim 52, wherein the retrieving legacy data includes retrieving computer-assisted drafting (CAD) files to generate the browser compatible graphic displays.

54. (Currently amended) A system according to ~~claim 49~~ claim 53, wherein the modification of data includes the modification of ~~(CAD)-CAD~~ files by generating commands to at least one software server.

55. (Previously presented) A system according to claim 49, wherein the retrieving legacy data includes retrieving numerically control files to generate the browser compatible graphic displays.

56. (Currently amended) A system according to ~~claim 49~~ claim 55, wherein the ~~modification of~~ modifying legacy data includes ~~the~~ modification of numerically control files by generating commands to at least one software server.

57. (Currently amended) A system according to ~~claim 49~~ claim 52, wherein the retrieving legacy data includes retrieving parts inventory files to generate the browser compatible graphic displays.

58. (Previously presented) A system according to claim 57, wherein the retrieving parts inventory files includes ordering parts according to the graphic display of parts inventory files.

59. (Currently amended) A system according to claim 49, ~~where~~ wherein at least one of the software servers is an Manufacturing Enterprise System.

60. (Withdrawn) A system according to claim 49, where at least one of the software servers is a workstation management system.

61. (Currently amended and Withdrawn) A system according to claim 49, where at least one of the software servers is a computer assisted drafting software server.

62. (Cancelled.)

63. (Withdrawn) A system according to claim 49, where at least one of the software servers is Scheduling Software.

64. (Withdrawn) A system according to claim 49, where at least one of the software servers is an e-mail server.

65. (Withdrawn) A system according to claim 49, where at least one of the software servers is a parts catalogue.

66. (Withdrawn) A system according to claim 49, where at least one of the software servers is an assembly procedure library.

67. (Withdrawn) A system according to claim 49, where at least one of the software servers is a warehouse management program.

68. (Withdrawn) A system according to claim 49, where at least one of the software servers is a human resources management program.

69. (Withdrawn) A system according to claim 49, where at least one of the software servers is a benefits management software program.

70. (Withdrawn) A system according to claim 49, where at least one of the software servers is an Internet router.

71. (Withdrawn) A system according to claim 49, where at least one of the software servers is an Intranet server.
72. (Withdrawn) The system of claim 40 wherein the network is the Internet.
73. (Withdrawn) The system of claim 40 wherein the network is a wireless network.
74. (Withdrawn) The system of claim 40 wherein the network is a satellite link.
75. (Withdrawn) The system of claim 40 wherein the network links to at least one remote server.